Certificate of Analysis

Sample Name: Part # X30036 - MIT45 Super K Extra Strong (30 mL) 12 Pack
Client: MIT45
Sample Code: DTS-260730-058
Matrix Name: Tincture - Oil-Based
Type / Result: Quality Assurance - Pass

cambium analytica
an NSF company



Received Date:	Mon, Aug 3, 2026
Published Date:	Thu, Aug 6, 2026
Batch/Lot Code:	00-2941
Batch Size:	9U
Sample Size:	9U
Average Unit Weight:	34.422g (Density (g/mL) * 30mL package. 15 servings/package.)

RESULT SUMMARY

Mitragynine	26.73 mg /serv
Total Major Alkaloids	35.29 mg /serv

ALKU ✓ **Kratom Alkaloids** High Level	ALKL ✓ **Kratom Alkaloids** Low Level	SAL ✓ **Salmonella spp.** qPCR	ECOLI ✓ **Total Coliforms & E. coli** Plate	PGUSP ✓ **Pesticides** USP <561>m
PLUSP ✓ **Pesticides** USP <561>m	TAMC ✓ **Total Aerobic Bacteria** Plate	DEN ✓ **Density of Liquids**	SAUR ✓ **Staphylococcus aureus** Plate	AWA ✓ **Water Activity**
HVMET ✓ **Heavy Metals** Big 4	TYMFD ✓ **Total Yeast & Mold** Plate	FTIRR ✓ **Identification by FTIR** Report	SOLHM ✓ **Residual Solvents** National Panel	7OHFL ✓ **7–Hydroxymitragynine** Florida

Approvals

RESULTS REVIEWED BY:

Leslie Nagy
Laboratory Director
Cambium Analytica
Thursday, Aug 6, 2026

RESULTS CERTIFIED BY:

Douglas Smith
VP - Scientific Operations
Cambium Analytica
Thursday, Aug 6, 2026

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Lab Information

Address: 1230 Woodmere Ave, Traverse City, MI 49686 **Phone:** 231.252.3669 **Accreditation:** ISO/IEC 17025:2017 – #108157

ALKU

Kratom Alkaloids - High Level

LAB-TM-052 - Determination of Kratom Alkaloid Content by UPLC-DAD

ALKU-DTS-260730-058-03 - WED, AUG 5, 2026

Analyte	Value	Value (mg/g)	Per Serving	Per Package	Action Limit	LOD	LOQ	Status
Mitragynine	1.1648 %	11.6481 mg/g	26.73 mg	400.95 mg	N/A	0.0481 mg/g	0.0962 mg/g	N/A
Paynantheine	0.1760 %	1.7602 mg/g	4.04 mg	60.59 mg	N/A	0.0481 mg/g	0.0962 mg/g	N/A
Speciogynine	0.1091 %	1.0914 mg/g	2.50 mg	37.57 mg	N/A	0.0481 mg/g	0.0962 mg/g	N/A
Speciociliatine	0.0877 %	0.8775 mg/g	2.01 mg	30.20 mg	N/A	0.0481 mg/g	0.0962 mg/g	N/A
Total Major Alkaloids *	1.5377 %	15.3772 mg/g	35.29 mg	529.32 mg	N/A	N/A	N/A	N/A

**Total Major Alkaloids is calculated as the sum of Mitragynine, Paynantheine, Speciociliatine and Speciogynine.*

ALKL

Kratom Alkaloids - Low Level

LAB-TM-047 - Determination of Kratom Alkaloid Content by LC-TQ

ALKL-DTS-260730-058-01 - WED, AUG 5, 2026

Analyte	Value	Value (mg/g)	Per Serving	Per Package	Action Limit	LOD	LOQ	Status
7-Hydroxymitragynine	0.00025 %	0.00247 mg/g	0.01 mg	0.08 mg	N/A	0.002 ug/g	0.011 ug/g	N/A
Mitraphylline	0.00001 %	0.00012 mg/g	0.00 mg	0.00 mg	N/A	0.004 ug/g	0.019 ug/g	N/A
Total Minor Alkaloids *	0.00026 %	0.00259 mg/g	0.01 mg	0.09 mg	N/A	N/A	N/A	N/A

**Total Minor Alkaloids is calculated as the sum of 7-Hydroxymitragynine and Mitraphylline.*

SAL

Salmonella spp. - qPCR - 25 g

LAB-TM-063 - Qualitative Detection of Presumptive Salmonella spp. in Foods and Dietary Supplements

SAL-DTS-260730-058-01 - WED, AUG 5, 2026

Analyte	Value	Action Limit	LOD	LOQ	Status
Salmonella spp.	ND /25 g	Detection	N/A	N/A	PASS

USP <62> - Vendor Modified, USP <2022> - Vendor Modified, USP <1223>, AOAC PTM 121802, AOAC OMA 2020.02

ECOLI

Total Coliforms & E. coli - Plate - 25 g - Full Range

LAB-TM-059 - Enumeration of Escherichia coli and Total Coliform in Foods and Dietary Supplements

ECOLI-DTS-260730-058-01 - WED, AUG 5, 2026

Analyte	Value	Action Limit	LOD	LOQ	Status
E. coli	ND	Detection	10 CFU/g	10 CFU/g	PASS
Total Coliforms	ND	1000 CFU/g	10 CFU/g	10 CFU/g	PASS

USP <61> - Vendor Modified, USP <2021> - Vendor Modified, USP <1223>, AOAC PTM 051801, AOAC OMA 2018.13

Testing was conducted on a 26.7484 gram aliquot

PGUSP

Pesticides - USP <561>m - GC/TQ

LAB-TM-039 - USP 561 Pesticides Analysis in Articles of Botanical Origin by GC/TQ

PGUSP-DTS-260730-058-01 - THU, AUG 6, 2026

Analyte	Value	Action Limit	LOD	LOQ	Status
Aldrin	ND	N/A	0.003 ug/g	0.005 ug/g	N/A
alpha-Endosulfan	ND	N/A	0.003 ug/g	0.005 ug/g	N/A
alpha-Hexachlorocyclohexane	ND	N/A	0.003 ug/g	0.005 ug/g	N/A
beta-Endosulfan	ND	N/A	0.003 ug/g	0.005 ug/g	N/A
beta-Hexachlorocyclohexane	ND	N/A	0.003 ug/g	0.005 ug/g	N/A
Bromophos-ethyl	ND	0.05 ug/g	0.003 ug/g	0.005 ug/g	PASS
Bromophos-methyl	ND	0.05 ug/g	0.003 ug/g	0.005 ug/g	PASS
Bromopropylate	ND	3 ug/g	0.003 ug/g	0.005 ug/g	PASS
Chlorpyriphos-methyl	ND	0.1 ug/g	0.003 ug/g	0.005 ug/g	PASS
Chlorthal-dimethyl	ND	0.01 ug/g	0.003 ug/g	0.005 ug/g	PASS
cis-Chlordane	ND	N/A	0.003 ug/g	0.005 ug/g	N/A
cis-Heptachlorepoxide	ND	N/A	0.005 ug/g	0.010 ug/g	N/A
Cyfluthrin	ND	0.1 ug/g	0.003 ug/g	0.005 ug/g	PASS
delta-Hexachlorocyclohexane	ND	N/A	0.003 ug/g	0.005 ug/g	N/A
Dichlofluanid	ND	0.1 ug/g	0.003 ug/g	0.005 ug/g	PASS
Dieldrin	ND	N/A	0.003 ug/g	0.005 ug/g	N/A
Endosulfan Sulfate	ND	N/A	0.003 ug/g	0.005 ug/g	N/A
Endrin	ND	0.05 ug/g	0.003 ug/g	0.006 ug/g	PASS
epsilon-Hexachlorocyclohexane	ND	N/A	0.003 ug/g	0.005 ug/g	N/A
Fenchlorophos	ND	N/A	0.003 ug/g	0.005 ug/g	N/A
Fenchlorophos-oxon	ND	N/A	0.003 ug/g	0.005 ug/g	N/A
Fenitrothion	ND	0.5 ug/g	0.003 ug/g	0.005 ug/g	PASS
Fenvalerate	ND	1.5 ug/g	0.003 ug/g	0.005 ug/g	PASS
Heptachlor	ND	N/A	0.005 ug/g	0.010 ug/g	N/A
Hexachlorobenzene	ND	0.1 ug/g	0.003 ug/g	0.005 ug/g	PASS
Lindane (gamma-Hexachlorocyclohexane)	ND	0.6 ug/g	0.003 ug/g	0.005 ug/g	PASS
Methacriphos	ND	0.05 ug/g	0.013 ug/g	0.027 ug/g	PASS
Methylpentachlorphenyl Sulfide	ND	N/A	0.003 ug/g	0.005 ug/g	N/A
Mirex	ND	0.01 ug/g	0.003 ug/g	0.005 ug/g	PASS
n-Desethyl-Pirimiphos-Methyl	ND	N/A	0.003 ug/g	0.005 ug/g	N/A
o,p'-DDE	ND	N/A	0.003 ug/g	0.005 ug/g	N/A
o,p'-DDT	ND	N/A	0.003 ug/g	0.005 ug/g	N/A
o,p'-TDE	ND	N/A	0.003 ug/g	0.005 ug/g	N/A
Oxychlordane	ND	N/A	0.005 ug/g	0.010 ug/g	N/A

**Total Chlordanes is calculated as the sum of cis-Chlordane, trans-Chlordane, and Oxychlordane.*

**Total DDTs is calculated as the sum of o,p'-DDE, p,p'-DDE, o,p'-DDT, p,p'-DDT, o,p'-TDE, and p,p'-TDE.*

**Total Endosulfans is calculated as the sum of alpha-Endosulfan, beta-Endosulfan, and Endosulfan Sulfate.*

**Total Fenchlorophos is calculated as the sum of Fenchlorophos and Fencholorophos-oxon.*

**Total Heptachlors is calculated as the sum of Heptachlor, cis-Heptachlorepoxide, and trans-Heptachlorepoxide.*

**Total Hexachlorocyclohexanes is calculated as the sum of alpha-Hexachlorocyclohexane, beta-Hexachlorocyclohexane, delta-Hexachlorocyclohexane, and epsilon-Hexachlorocyclohexane.*

**Total Quintozenes is calculated as the sum of Pentachloronitrobenzene (Quintozene), Pentachloroaniline, and Methylpentachlorphenyl Sulfide.*

USP <561>

Modified test method does not include the following analytes: Bromide, inorganic (calculated as bromide ion), Dithiocarbamates (as CS2). The reported action limit for n-Desethyl-Pirimiphos-Methyl is based on the combined concentration of n-Desethyl-Pirimiphos-Methyl (GC/TQ) and Pirimiphos-Methyl (LC/TQ), in accordance with USP <561> regulatory requirements.

PGUSP

Pesticides - USP <561>m - GC/TQ

LAB-TM-039 - USP 561 Pesticides Analysis in Articles of Botanical Origin by GC/TQ

PGUSP-DTS-260730-058-01 - THU, AUG 6, 2026

Analyte	Value	Action Limit	LOD	LOQ	Status
p,p'-DDE	ND	N/A	0.003 ug/g	0.005 ug/g	N/A
p,p'-DDT	ND	N/A	0.003 ug/g	0.005 ug/g	N/A
p,p'-Dicofol	ND	0.5 ug/g	0.003 ug/g	0.005 ug/g	PASS
p,p'-Methoxychlor	ND	0.05 ug/g	0.003 ug/g	0.005 ug/g	PASS
p,p'-TDE	ND	N/A	0.003 ug/g	0.005 ug/g	N/A
Paraoxon-ethyl	ND	N/A	0.003 ug/g	0.005 ug/g	N/A
Paraoxon-methyl	ND	N/A	0.005 ug/g	0.010 ug/g	N/A
Parathion-ethyl	ND	N/A	0.003 ug/g	0.005 ug/g	N/A
Parathion-methyl	ND	N/A	0.003 ug/g	0.005 ug/g	N/A
Pentachloroaniline	ND	N/A	0.003 ug/g	0.005 ug/g	N/A
Pentachloroanisole	ND	0.01 ug/g	0.003 ug/g	0.005 ug/g	PASS
Pentachloronitrobenzene (Quintozene)	ND	N/A	0.003 ug/g	0.005 ug/g	N/A
Procymidone	ND	0.1 ug/g	0.003 ug/g	0.005 ug/g	PASS
S-421	ND	0.02 ug/g	0.003 ug/g	0.005 ug/g	PASS
tau-Fluvalinate	ND	0.05 ug/g	0.003 ug/g	0.005 ug/g	PASS
Tecnazene	ND	0.05 ug/g	0.003 ug/g	0.005 ug/g	PASS
Tetradifon	ND	0.3 ug/g	0.003 ug/g	0.005 ug/g	PASS
trans-Chlordane	ND	N/A	0.003 ug/g	0.005 ug/g	N/A
trans-Heptachlorepoxide	ND	N/A	0.009 ug/g	0.017 ug/g	N/A
Vinclozolin	ND	0.4 ug/g	0.003 ug/g	0.005 ug/g	PASS
Aldrin + Dieldrin	0.000 ug/g	0.05 ug/g	N/A	N/A	PASS
Parathion-ethyl + Paraoxon-ethyl	0.000 ug/g	0.5 ug/g	N/A	N/A	PASS
Parathion-methyl + Paraoxon-methyl	0.000 ug/g	0.2 ug/g	N/A	N/A	PASS
Pirimiphos-Methyl + n-Desethyl-Pirimiphos-Methyl	0.000 ug/g	4 ug/g	N/A	N/A	PASS
Total Chlordanes - USP *	0.000 ug/g	0.05 ug/g	N/A	N/A	PASS
Total DDTs *	0.000 ug/g	1 ug/g	N/A	N/A	PASS
Total Endosulfans *	0.000 ug/g	3 ug/g	N/A	N/A	PASS
Total Fenchlorophos *	0.000 ug/g	0.1 ug/g	N/A	N/A	PASS
Total Heptachlors *	0.000 ug/g	0.05 ug/g	N/A	N/A	PASS
Total Hexachlorocyclohexanes *	0.000 ug/g	0.3 ug/g	N/A	N/A	PASS
Total Quintozenes *	0.000 ug/g	1 ug/g	N/A	N/A	PASS

**Total Chlordanes is calculated as the sum of cis-Chlordane, trans-Chlordane, and Oxychlordane.*

**Total DDTs is calculated as the sum of o,p'-DDE, p,p'-DDE, o,p'-DDT, p,p'-DDT, o,p'-TDE, and p,p'-TDE.*

**Total Endosulfans is calculated as the sum of alpha-Endosulfan, beta-Endosulfan, and Endosulfan Sulfate.*

**Total Fenchlorophos is calculated as the sum of Fenchlorophos and Fencholorophos-oxon.*

**Total Heptachlors is calculated as the sum of Heptachlor, cis-Heptachlorepoxide, and trans-Heptachlorepoxide.*

**Total Hexachlorocyclohexanes is calculated as the sum of alpha-Hexachlorocyclohexane, beta-Hexachlorocyclohexane, delta-Hexachlorocyclohexane, and epsilon-Hexachlorocyclohexane.*

**Total Quintozenes is calculated as the sum of Pentachloronitrobenzene (Quintozene), Pentachloroaniline, and Methylpentachlorphenyl Sulfide.*

USP <561>

Modified test method does not include the following analytes: Bromide, inorganic (calculated as bromide ion), Dithiocarbamates (as CS2). The reported action limit for n-Desethyl-Pirimiphos-Methyl is based on the combined concentration of n-Desethyl-Pirimiphos-Methyl (GC/TQ) and Pirimiphos-Methyl (LC/TQ), in accordance with USP <561> regulatory requirements.

PLUSP

Pesticides - USP <561>m - LC/TQ

LAB-TM-038 - USP 561 Pesticide Analysis in Articles of Botanical Origin by LC/TQ

PLUSP-DTS-260730-058-01 - THU, AUG 6, 2026

Analyte	Value	Action Limit	LOD	LOQ	Status
Acephate	ND	0.1 ug/g	0.012 ug/g	0.025 ug/g	PASS
Alachlor	ND	0.05 ug/g	0.012 ug/g	0.025 ug/g	PASS
Azinphos-ethyl	ND	0.1 ug/g	0.012 ug/g	0.025 ug/g	PASS
Azinphos-methyl	ND	1 ug/g	0.012 ug/g	0.025 ug/g	PASS
Chlorfenvinphos	ND	0.5 ug/g	0.012 ug/g	0.025 ug/g	PASS
Chlorpyriphos-ethyl	ND	0.2 ug/g	0.012 ug/g	0.025 ug/g	PASS
Cypermethrin	ND	1 ug/g	0.025 ug/g	0.125 ug/g	PASS
Deltamethrin	ND	0.5 ug/g	0.012 ug/g	0.025 ug/g	PASS
Diazinon	ND	0.5 ug/g	0.012 ug/g	0.025 ug/g	PASS
Dichlorvos	ND	1 ug/g	0.012 ug/g	0.025 ug/g	PASS
Dimethoate	ND	N/A	0.012 ug/g	0.025 ug/g	N/A
Ethion	ND	2 ug/g	0.012 ug/g	0.025 ug/g	PASS
Etrimphos	ND	0.05 ug/g	0.012 ug/g	0.025 ug/g	PASS
Fenpropathrin	ND	0.03 ug/g	0.012 ug/g	0.025 ug/g	PASS
Fensulfothion	ND	N/A	0.025 ug/g	0.050 ug/g	N/A
Fensulfothion Oxon	ND	N/A	0.012 ug/g	0.025 ug/g	N/A
Fensulfothion Oxonsulfone	ND	N/A	0.012 ug/g	0.025 ug/g	N/A
Fensulfothion Sulfone	ND	N/A	0.012 ug/g	0.025 ug/g	N/A
Fenthion	ND	N/A	0.012 ug/g	0.025 ug/g	N/A
Fenthion Oxon	ND	N/A	0.012 ug/g	0.025 ug/g	N/A
Fenthion Oxon Sulfone	ND	N/A	0.012 ug/g	0.025 ug/g	N/A
Fenthion Oxon Sulfoxide	ND	N/A	0.012 ug/g	0.025 ug/g	N/A
Fenthion Sulfone	ND	N/A	0.012 ug/g	0.025 ug/g	N/A
Fenthion Sulfoxide	ND	N/A	0.012 ug/g	0.025 ug/g	N/A
Flucythrinate	ND	0.05 ug/g	0.025 ug/g	0.050 ug/g	PASS
Fonophos	ND	0.05 ug/g	0.012 ug/g	0.025 ug/g	PASS
lambda-Cyhalothrin	ND	1 ug/g	0.025 ug/g	0.125 ug/g	PASS
Malaoxon	ND	N/A	0.012 ug/g	0.025 ug/g	N/A
Malathion	ND	N/A	0.012 ug/g	0.025 ug/g	N/A
Mecarbam	ND	0.05 ug/g	0.012 ug/g	0.025 ug/g	PASS
Methamidophos	ND	0.05 ug/g	0.012 ug/g	0.025 ug/g	PASS
Methidathion	ND	0.2 ug/g	0.012 ug/g	0.025 ug/g	PASS
Monocrotophos	ND	0.1 ug/g	0.012 ug/g	0.025 ug/g	PASS
Omethoate	ND	N/A	0.012 ug/g	0.025 ug/g	N/A
Pendimethalin	ND	0.1 ug/g	0.012 ug/g	0.025 ug/g	PASS

**Permethrin is reported as the sum of cis and trans isomers.*

**Total Fensulfothions is calculated as the sum of Fensulfothion, Fensulfothion Oxon, Fensulfothion Oxonsulfone, and Fensulfothion Sulfone.*

**Total Fenthions is calculated as the sum of Fenthion, Fenthion Oxon, Fenthion Oxon Sulfone, Fenthion Oxon Sulfoxide, Fenthion Sulfone, and Fenthion Sulfoxide.*

**Total Pyrethrins is calculated as the sum of Cinerin I, Cinerin II, Jasmolin I, Jasmolin II, Pyrethrin I, and Pyrethrin II.*

USP <561>

Modified test method does not include the following analytes: Bromide, inorganic (calculated as bromide ion), Dithiocarbamates (as CS2). Pirimiphos-Methyl is included in the calculation of the combined regulatory result reported under the GC/TQ pesticide panel.

PLUSP

Pesticides - USP <561>m - LC/TQ

LAB-TM-038 - USP 561 Pesticide Analysis in Articles of Botanical Origin by LC/TQ
PLUSP-DTS-260730-058-01 - THU, AUG 6, 2026

Analyte	Value	Action Limit	LOD	LOQ	Status
Permethrin *	ND	1 ug/g	0.012 ug/g	0.025 ug/g	PASS
Phosalone	ND	0.1 ug/g	0.012 ug/g	0.025 ug/g	PASS
Phosmet	ND	0.05 ug/g	0.012 ug/g	0.025 ug/g	PASS
Piperonyl Butoxide	ND	3 ug/g	0.012 ug/g	0.025 ug/g	PASS
Pirimiphos-ethyl	ND	0.05 ug/g	0.012 ug/g	0.025 ug/g	PASS
Pirimiphos-methyl	ND	4 ug/g	0.012 ug/g	0.025 ug/g	PASS
Profenophos	ND	0.1 ug/g	0.012 ug/g	0.025 ug/g	PASS
Prothiophos	ND	0.05 ug/g	0.025 ug/g	0.050 ug/g	PASS
Pyrethrins Cinerin I	ND	N/A	0.004 ug/g	0.008 ug/g	N/A
Pyrethrins Cinerin II	ND	N/A	0.002 ug/g	0.005 ug/g	N/A
Pyrethrins Jasmolin I	ND	N/A	0.000 ug/g	0.002 ug/g	N/A
Pyrethrins Jasmolin II	ND	N/A	0.001 ug/g	0.002 ug/g	N/A
Pyrethrins Pyrethrin I	ND	N/A	0.007 ug/g	0.034 ug/g	N/A
Pyrethrins Pyrethrin II	ND	N/A	0.003 ug/g	0.016 ug/g	N/A
Quinalphos	ND	0.05 ug/g	0.012 ug/g	0.025 ug/g	PASS
Dimethoate + Omethoate	0.000 ug/g	0.1 ug/g	N/A	N/A	PASS
Malathion + Malaoxon	0.000 ug/g	1 ug/g	N/A	N/A	PASS
Total Fensulfothions *	0.000 ug/g	0.05 ug/g	N/A	N/A	PASS
Total Fenthions *	0.000 ug/g	0.05 ug/g	N/A	N/A	PASS
Total Pyrethrins *	0.000 ug/g	3 ug/g	N/A	N/A	PASS

**Permethrin is reported as the sum of cis and trans isomers.*

**Total Fensulfothions is calculated as the sum of Fensulfothion, Fensulfothion Oxon, Fensulfothion Oxonsulfone, and Fensulfothion Sulfone.*
**Total Fenthions is calculated as the sum of Fenthion, Fenthion Oxon, Fenthion Oxon Sulfone, Fenthion Oxon Sulfoxide, Fenthion Sulfone, and Fenthion Sulfoxide.*
**Total Pyrethrins is calculated as the sum of Cinerin I, Cinerin II, Jasmolin I, Jasmolin II, Pyrethrin I, and Pyrethrin II.*

USP <561>

Modified test method does not include the following analytes: Bromide, inorganic (calculated as bromide ion), Dithiocarbamates (as CS2). Pirimiphos-Methyl is included in the calculation of the combined regulatory result reported under the GC/TQ pesticide panel.

TAMC

Total Aerobic Bacteria - Plate - 25 g - Full Range

LAB-TM-060 - Enumeration of Total Aerobic Count in Foods and Dietary Supplements
TAMC-DTS-260730-058-01 - WED, AUG 5, 2026

Analyte	Value	Action Limit	LOD	LOQ	Status
Total Aerobic Count	ND	10000 CFU/g	10 CFU/g	10 CFU/g	PASS

USP <61> - Vendor Modified, USP <1223>, AOAC PTM 121403, AOAC OMA 2015.13

Testing was conducted on a 26.7484 gram aliquot

DEN

Density of Liquids

LAB-TM-017 - Brix & Density Analysis
DEN-DTS-260730-058-01 - TUE, AUG 4, 2026

Analyte	Value	Action Limit	LOD	LOQ	Status
Density	1.1474 g/mL	1.13 - 1.17 g/mL	N/A	N/A	WITHIN SPEC
Specific Gravity *	1.1495	N/A	N/A	N/A	N/A

**Specific gravity is calculated using the density of water at 20 °C (0.9982 g/mL) using the equation: [Specific Gravity = (Density of sample in g/mL) ÷ 0.9982 g/mL]*

SAUR

Staphylococcus aureus - Plate - 25 g

LAB-TM-062 - Enumeration of Staphylococcus aureus in Foods and Dietary Supplements
SAUR-DTS-260730-058-01 - WED, AUG 5, 2026

Analyte	Value	Action Limit	LOD	LOQ	Status
S. aureus	ND	Detection	10 CFU/g	10 CFU/g	PASS

USP <61> - Vendor Modified, USP <2021> - Vendor Modified, USP <1223>, AOAC OMA 2003.07

Testing was conducted on a 26.7484 gram aliquot

AWA

Water Activity

LAB-TM-009 - Determination of Water Activity
AWA-DTS-260730-058-01 - WED, AUG 5, 2026

Analyte	Value	Action Limit	LOD	LOQ	Status
Water Activity	0.768 aw	0.84 aw	N/A	N/A	WITHIN SPEC

USP <922>

HVMET

Heavy Metals - Big 4

LAB-TM-044 - Determination of Heavy Metals by ICP-MS
HVMET-DTS-260730-058-01 - THU, AUG 6, 2026

Analyte	Value	Value (mg/g)	Per Serving	Per Package	Action Limit	LOD	LOQ	Status
Arsenic	ND	N/A	N/A	N/A	1 ug/g	41.938 ug/kg	116.496 ug/kg	PASS
Cadmium	ND	N/A	N/A	N/A	1 ug/g	8.388 ug/kg	29.124 ug/kg	PASS
Lead	ND	N/A	N/A	N/A	3 ug/g	5.126 ug/kg	29.124 ug/kg	PASS
Mercury	<LOQ	N/A	N/A	N/A	1 ug/g	1.631 ug/kg	2.912 ug/kg	PASS

USP <233>, USP <730>, USP <1730>

TYMFD

Total Yeast & Mold - Plate - 25 g - Full Range

LAB-TM-061 - Enumeration of Yeast and Mold in Foods and Dietary Supplements

TYMFD-DTS-260730-058-01 - THU, AUG 6, 2026

Analyte	Value	Action Limit	LOD	LOQ	Status
Total Mold	ND	N/A	10 CFU/g	10 CFU/g	N/A
Total Yeast	ND	N/A	10 CFU/g	10 CFU/g	N/A
Total Yeast and Mold *	0 CFU/g	1000 CFU/g	N/A	N/A	PASS

**Total Yeast and Mold is calculated as the sum of Total Yeast and Total Mold*

USP <61> - Vendor Modified, USP <1223>, AOAC PTM 121301, AOAC OMA 2014.05

Testing was conducted on a 26.7484 gram aliquot

FTIRR

Identification by FTIR - Report

ANA-TM-113 - Identification by FTIR

FTIRR-DTS-260730-058-01 - TUE, AUG 4, 2026

Analyte	Value	Action Limit	LOD	LOQ	Status
Quality Index Score	99.9 %	95 - 100 %	N/A	N/A	PASS

USP <197>, USP <854>, USP <1854>

MIT45 Super K Extra Strong 30 mL (12 Pack) (Part # 30036)

SOLHM

Residual Solvents - National Panel

ANA-TM-053 - Determination of Residual Solvents

SOLHM-DTS-260730-058-01 - WED, AUG 5, 2026

Analyte	Value	Action Limit	LOD	LOQ	Status
1,1-Dichloroethene	ND	N/A	5 ug/g	10 ug/g	N/A
1,2-Dichloroethane	ND	5 ug/g	0.5 ug/g	1.00 ug/g	PASS
2-Methylbutane	ND	N/A	5 ug/g	10 ug/g	N/A
2-Methylpentane	ND	N/A	5 ug/g	10 ug/g	N/A
2,2-Dimethylbutane	ND	N/A	5 ug/g	10 ug/g	N/A
2,3-Dimethylbutane	ND	N/A	5 ug/g	10 ug/g	N/A
3-Methylpentane	ND	N/A	5 ug/g	10 ug/g	N/A
Acetone	ND	5000 ug/g	5 ug/g	10 ug/g	PASS
Acetonitrile	ND	410 ug/g	5 ug/g	10 ug/g	PASS
Benzene	ND	2 ug/g	0.18 ug/g	0.50 ug/g	PASS
Butane	ND	N/A	5 ug/g	10 ug/g	N/A
Chloroform	ND	60 ug/g	0.78 ug/g	1 ug/g	PASS
Ethanol	ND	5000 ug/g	5 ug/g	10 ug/g	PASS
Ethyl Acetate	ND	5000 ug/g	5 ug/g	10 ug/g	PASS
Ethyl Ether	ND	5000 ug/g	5 ug/g	10 ug/g	PASS
Ethylene Oxide	ND	N/A	2 ug/g	4 ug/g	N/A
Heptane	ND	5000 ug/g	5 ug/g	10 ug/g	PASS
Hexane	ND	290 ug/g	5 ug/g	10 ug/g	PASS
Isobutane	ND	N/A	5 ug/g	10 ug/g	N/A
Isopropyl Alcohol	ND	N/A	5 ug/g	10 ug/g	N/A
Methanol	13.723 ug/g	3000 ug/g	5 ug/g	10 ug/g	PASS
Methylene Chloride	ND	600 ug/g	5 ug/g	10 ug/g	PASS
Neopentane	ND	N/A	5 ug/g	10 ug/g	N/A
Pentane	ND	5000 ug/g	5 ug/g	10 ug/g	PASS
Propane	ND	N/A	5 ug/g	10 ug/g	N/A
Toluene	ND	890 ug/g	5 ug/g	10 ug/g	PASS
Total Xylenes	ND	2170 ug/g	5 ug/g	10 ug/g	PASS
Trichloroethylene	ND	80 ug/g	0.5 ug/g	1 ug/g	PASS
Total Butanes *	0.000 ug/g	N/A	N/A	N/A	N/A
Total Hexanes *	0.000 ug/g	290 ug/g	N/A	N/A	PASS
Total Pentanes *	0.000 ug/g	5000 ug/g	N/A	N/A	PASS

**Total Butanes is calculated as the sum of Butane and Isobutane*

**Total Hexanes is calculated as the sum of Hexane, 2,2-Dimethylbutane, 2,3-Dimethylbutane, 2-Methylpentane, and 3-Methylpentane.*

**Total Pentanes is calculated as the sum of Pentane, 2-Methylbutane, and Neopentane.*

Modified USP <467>

7OHFL

7–Hydroxymitragynine - Florida - Dry–Weight Basis

7–Hydroxymitragynine - (Florida — Dry–Weight Basis)
7OHFL-DTS-260730-058-01 - WED, AUG 5, 2026

Analyte	Value	Action Limit	LOD	LOQ	Status
Moisture (%) by Input *	42.000 %	N/A	N/A	N/A	N/A
7-Hydroxymitragynine - As Received *	2.47 ppm	N/A	N/A	N/A	N/A
7-Hydroxymitragynine - Dry-Weight *	4.26 ppm	400 ppm	N/A	N/A	PASS

**The Moisture (%) by Input result may represent either a client-provided input or a value measured by Cambium. This value is incorporated into associated calculated analytes for reporting purposes.*

**7-Hydroxymitragynine – As Received: The "As Received" value represents the concentration of 7-hydroxymitragynine, expressed in parts per million (ppm), as reported in the Kratom Alkaloids – Low Level test. This corresponds to the measured percentage of 7-hydroxymitragynine in the sample as received.*

**7-Hydroxymitragynine (Dry-Weight Basis): The dry weight concentration of 7-hydroxymitragynine is calculated using the following formula: Dry Weight 7-Hydroxymitragynine (ppm) = 7-Hydroxymitragynine (ppm) x (100 / (100 – Moisture by Input (%)))*